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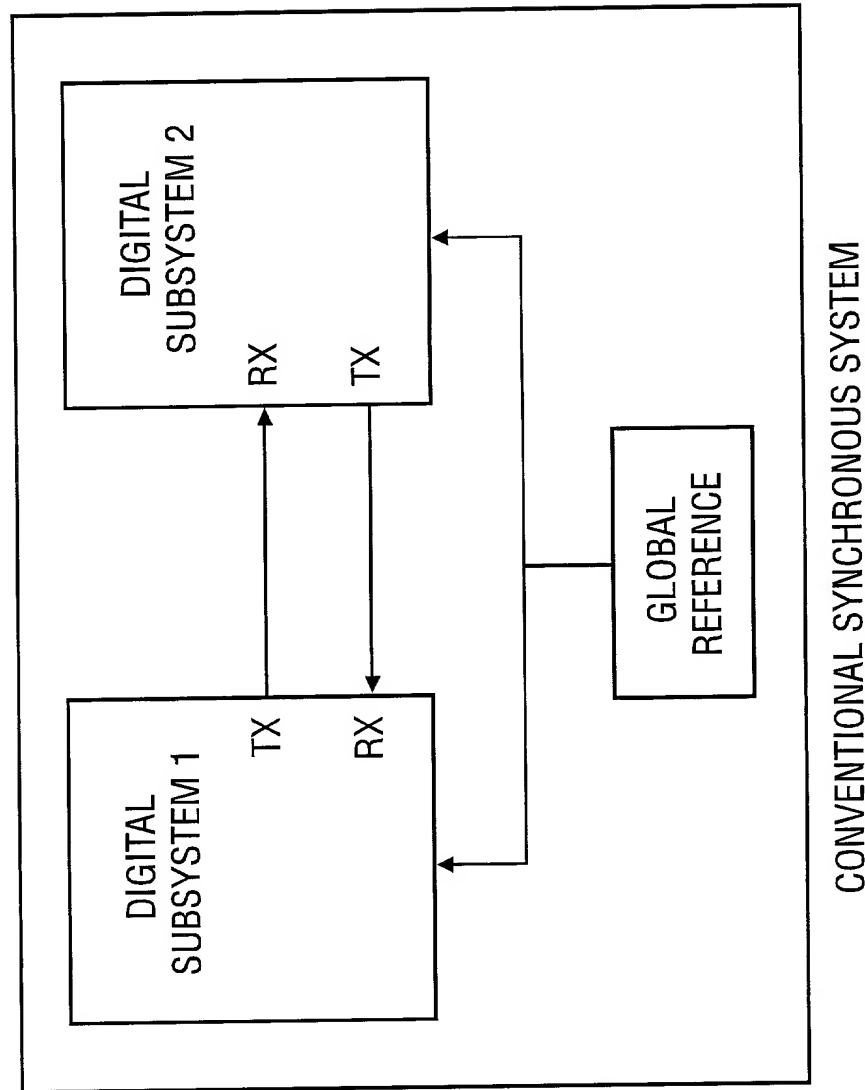
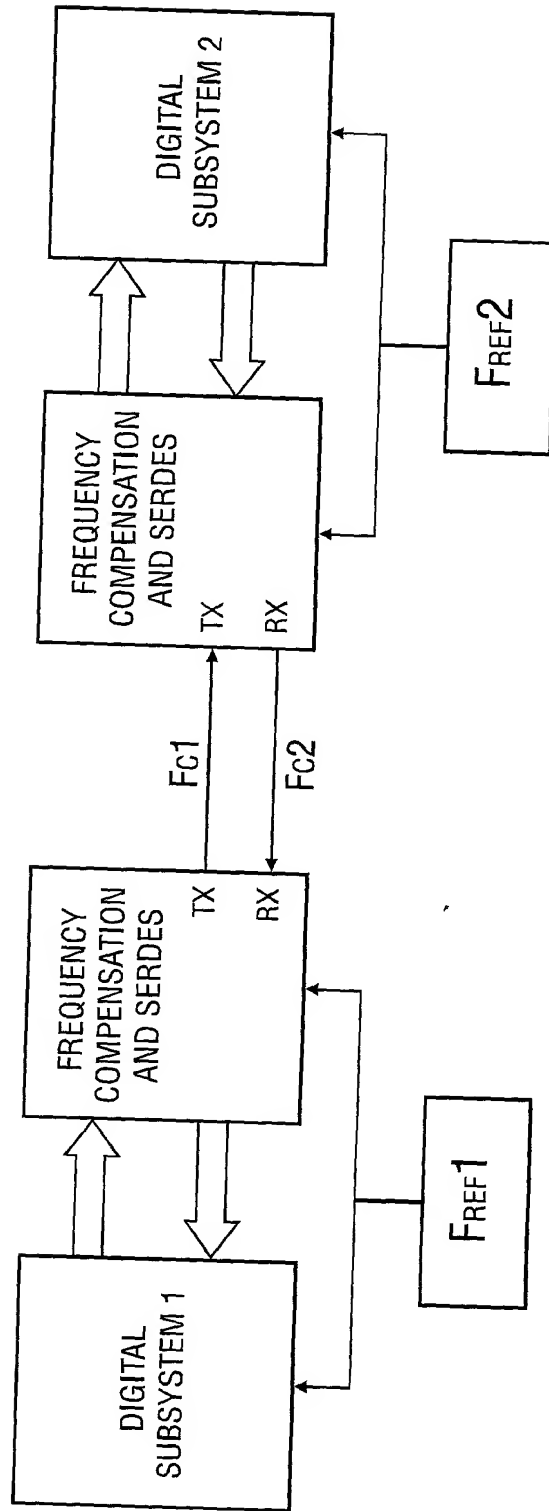


Fig. 1

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CONVENTIONAL PLESIOCHRONOUS SYSTEM

Fig. 2

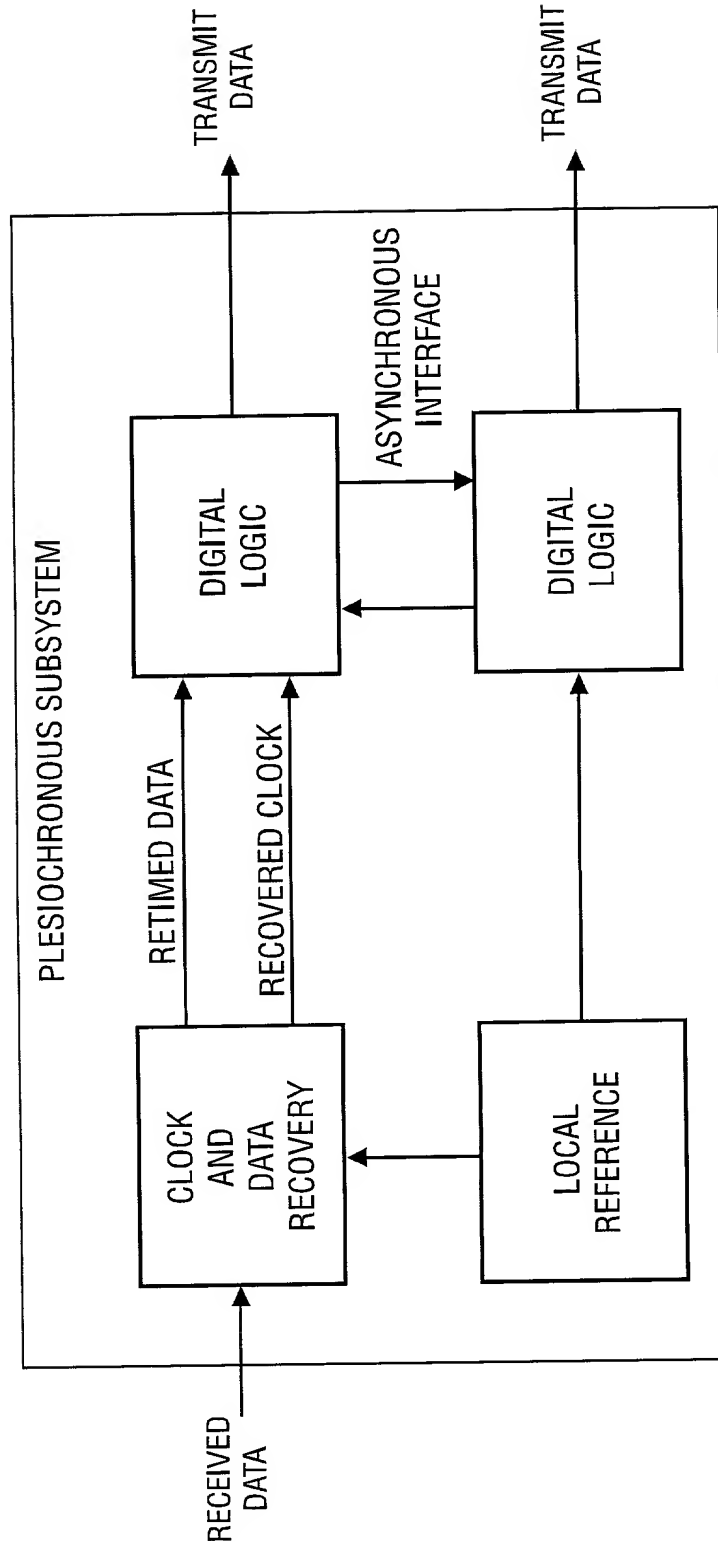
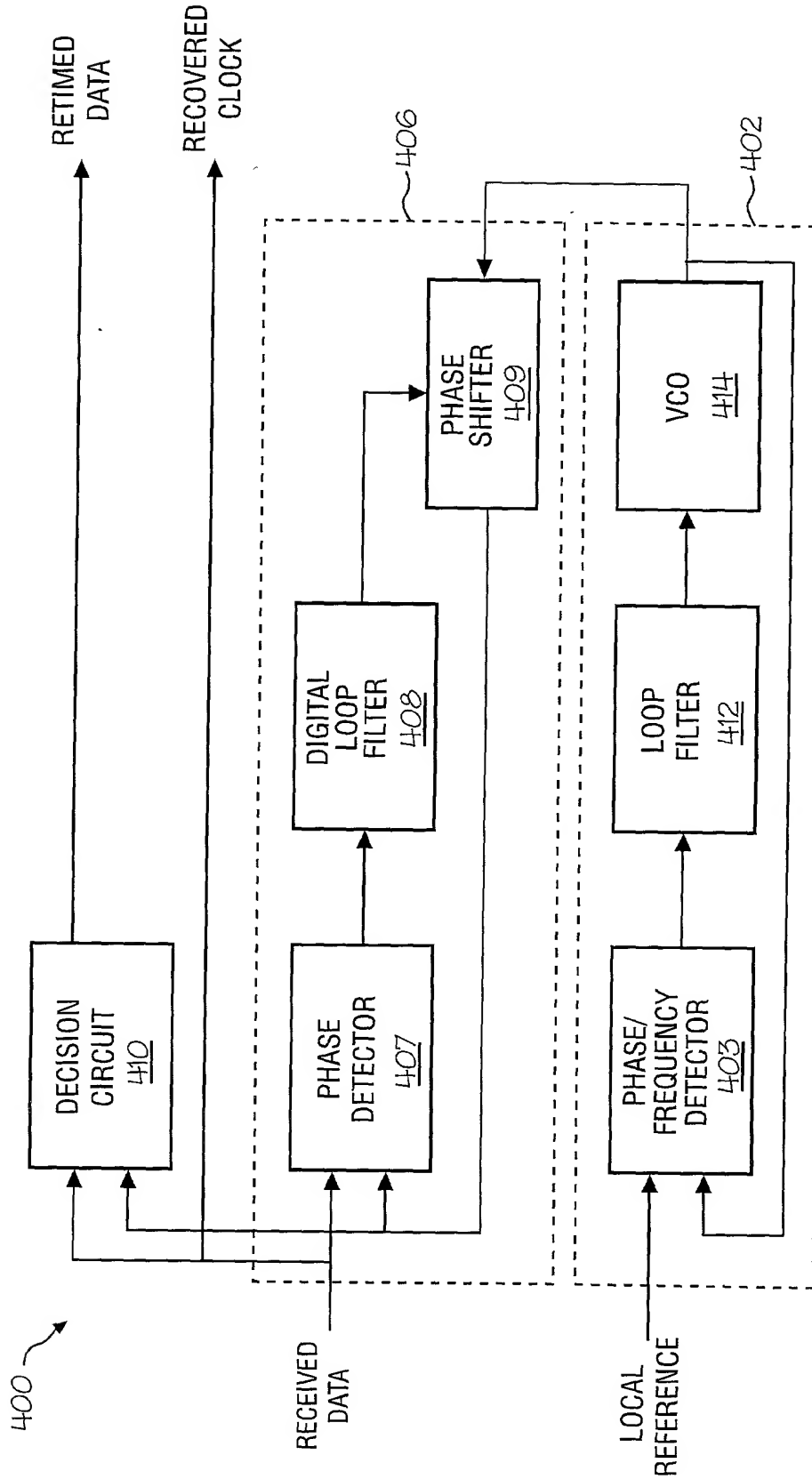


Fig. 3

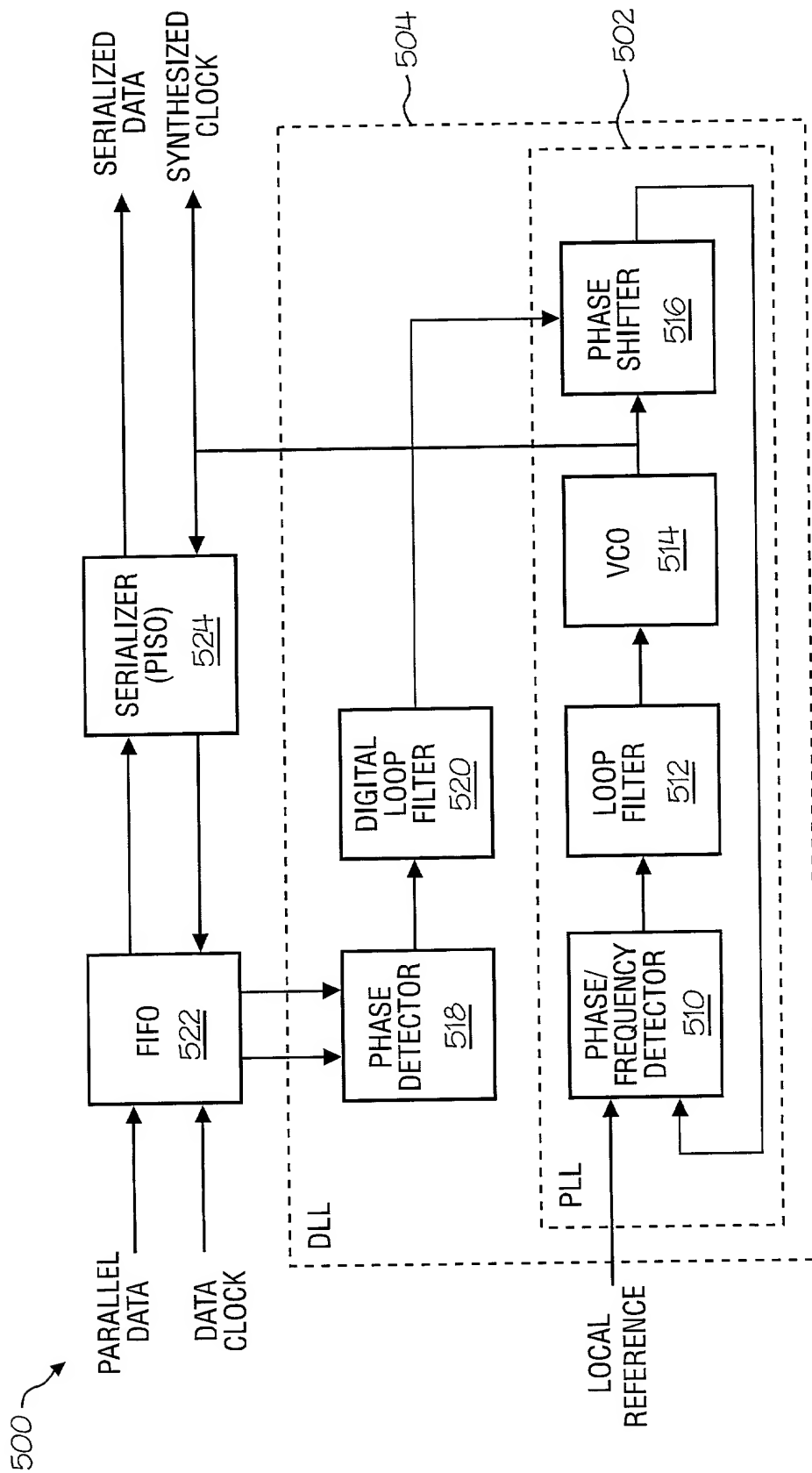
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DUAL LOOP CDR

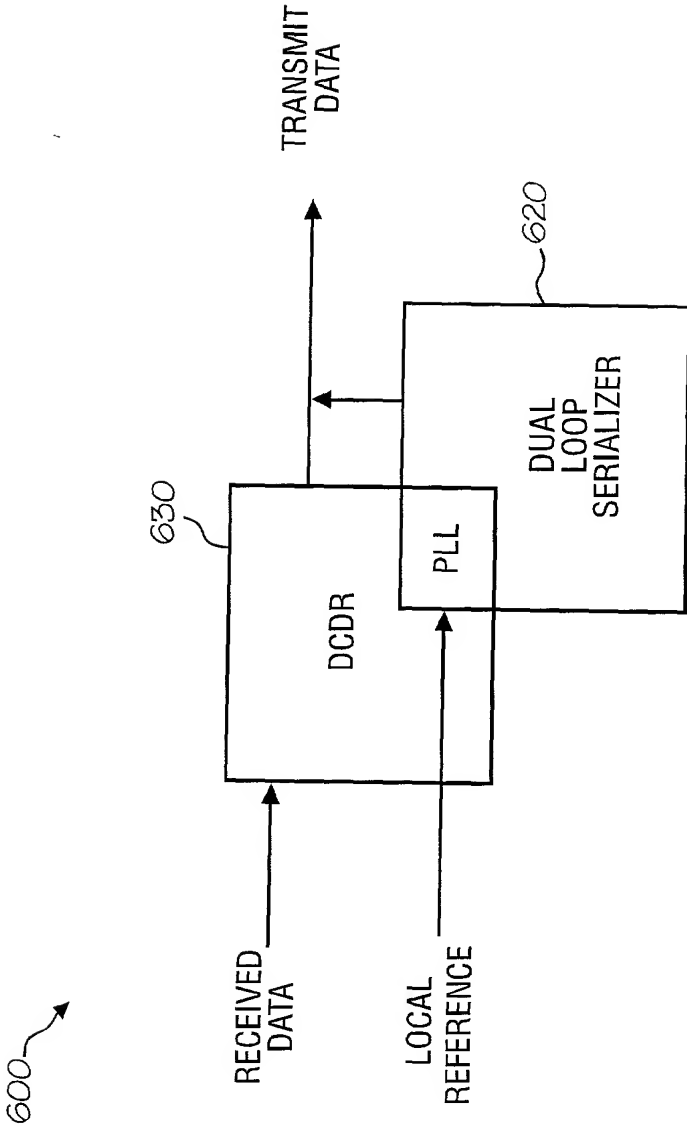
Fig. 4
 PRIOR ART

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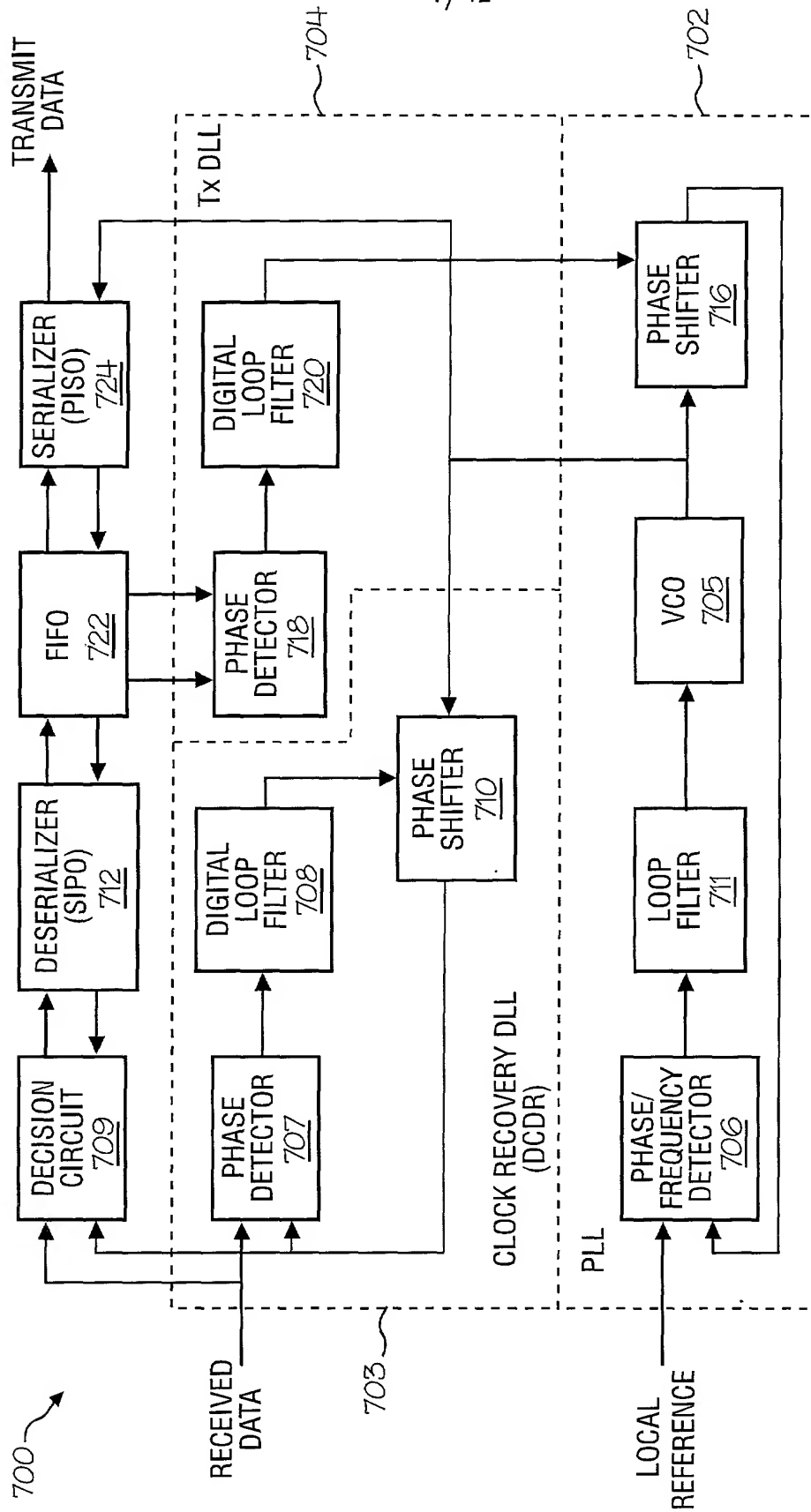
DUAL LOOP SERIALIZER

Fig. 5



DUAL LOOP RETIMER
Fig. 6

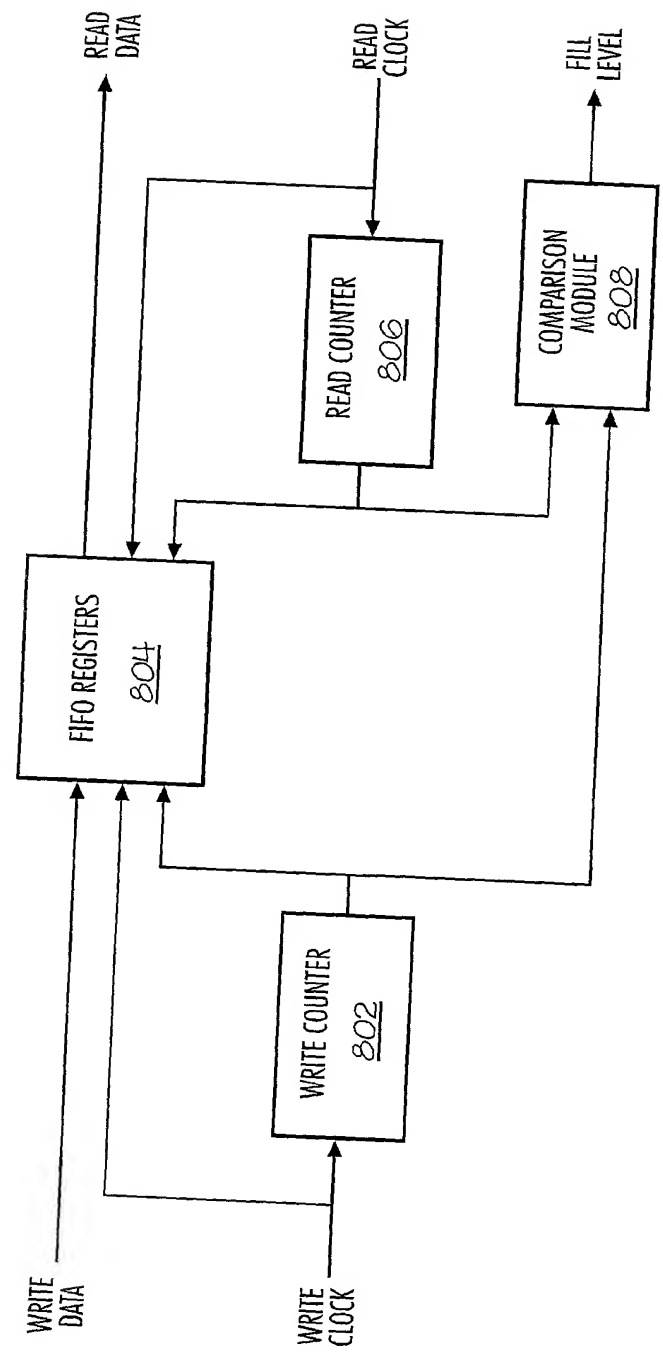
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DUAL LOOP RETIMER

Fig. 7

800 ~



GRANULAR FIFO FILL LEVEL INDICATOR

Fig. 8

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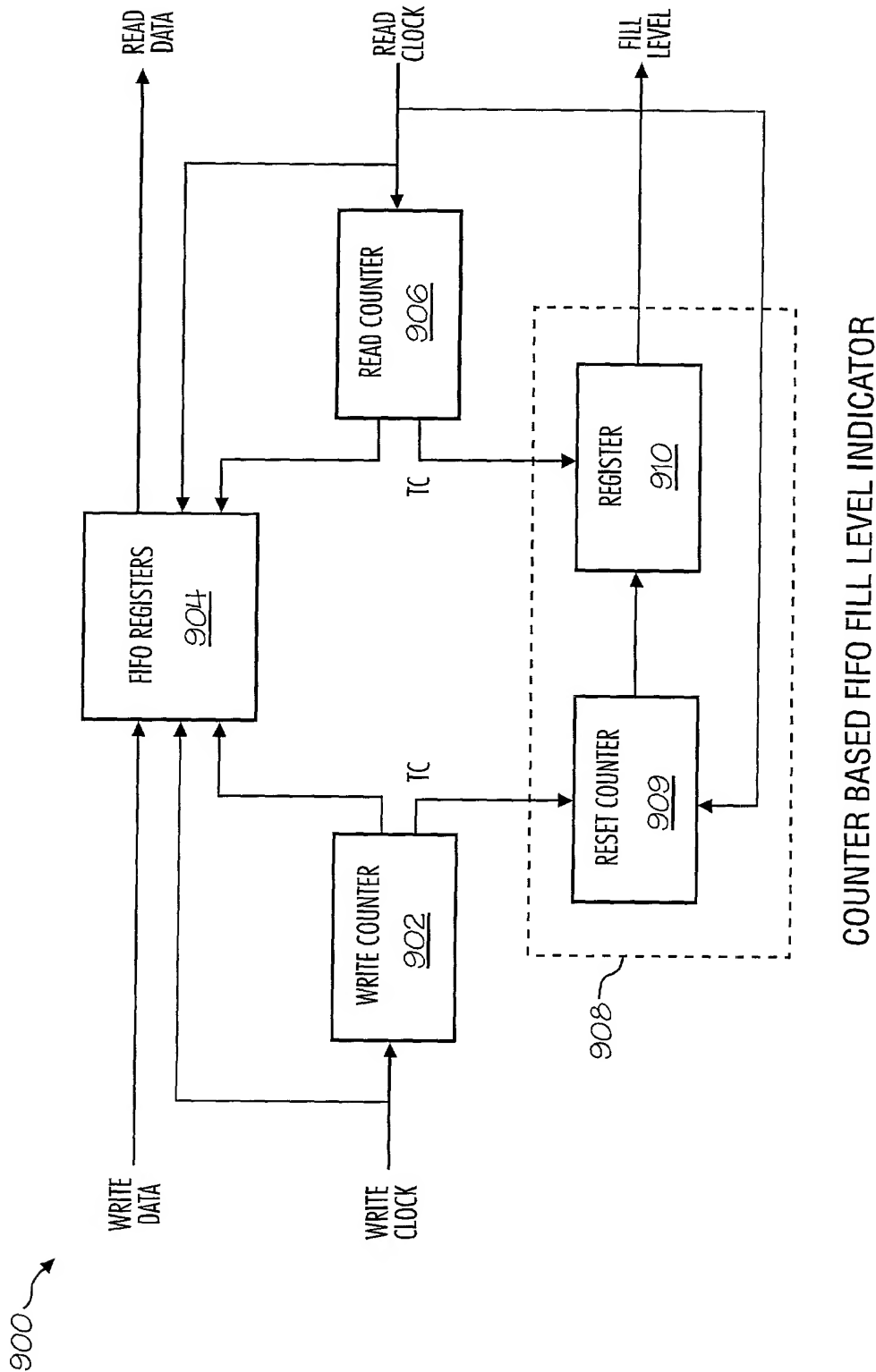
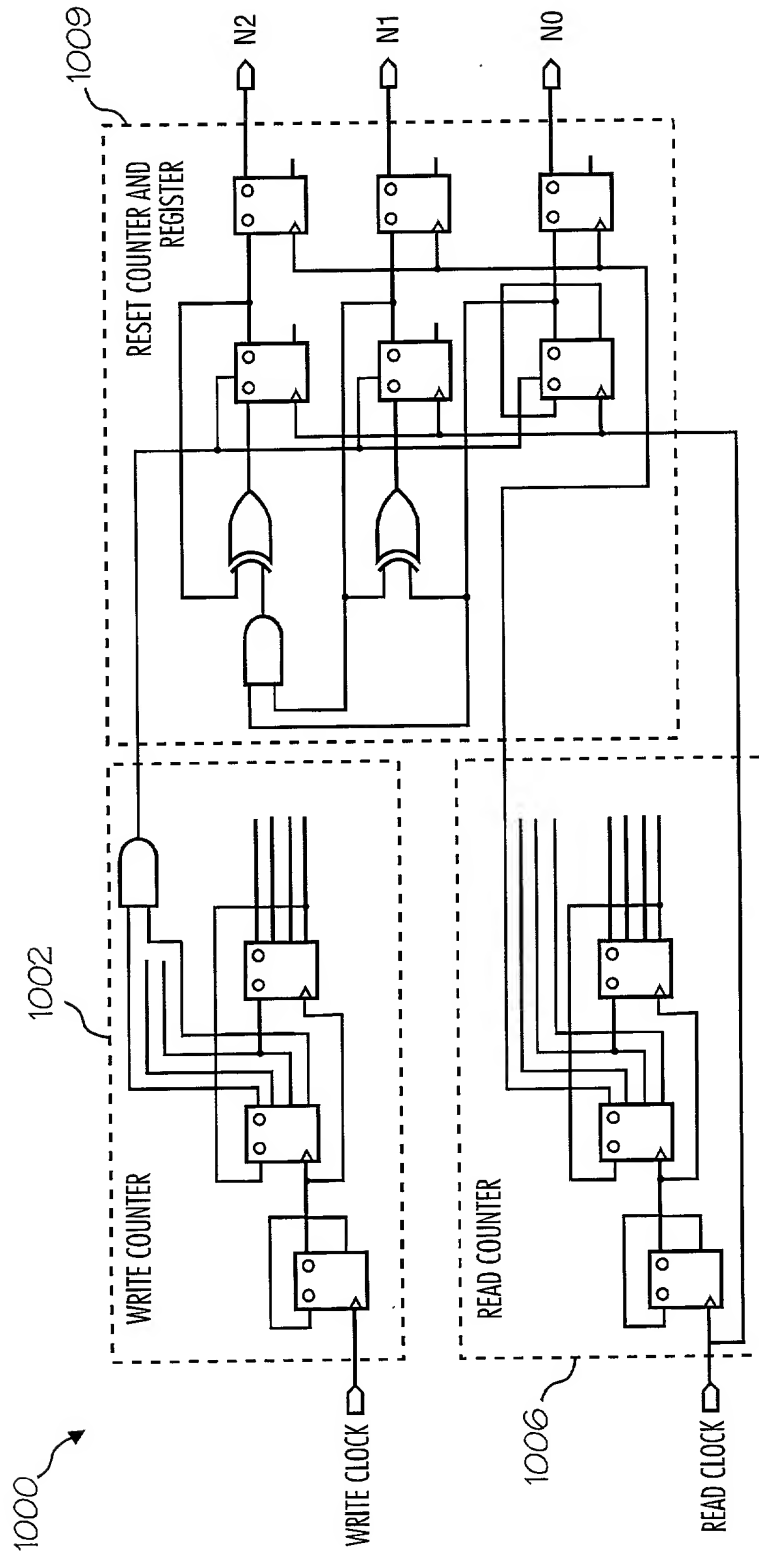


Fig. 9

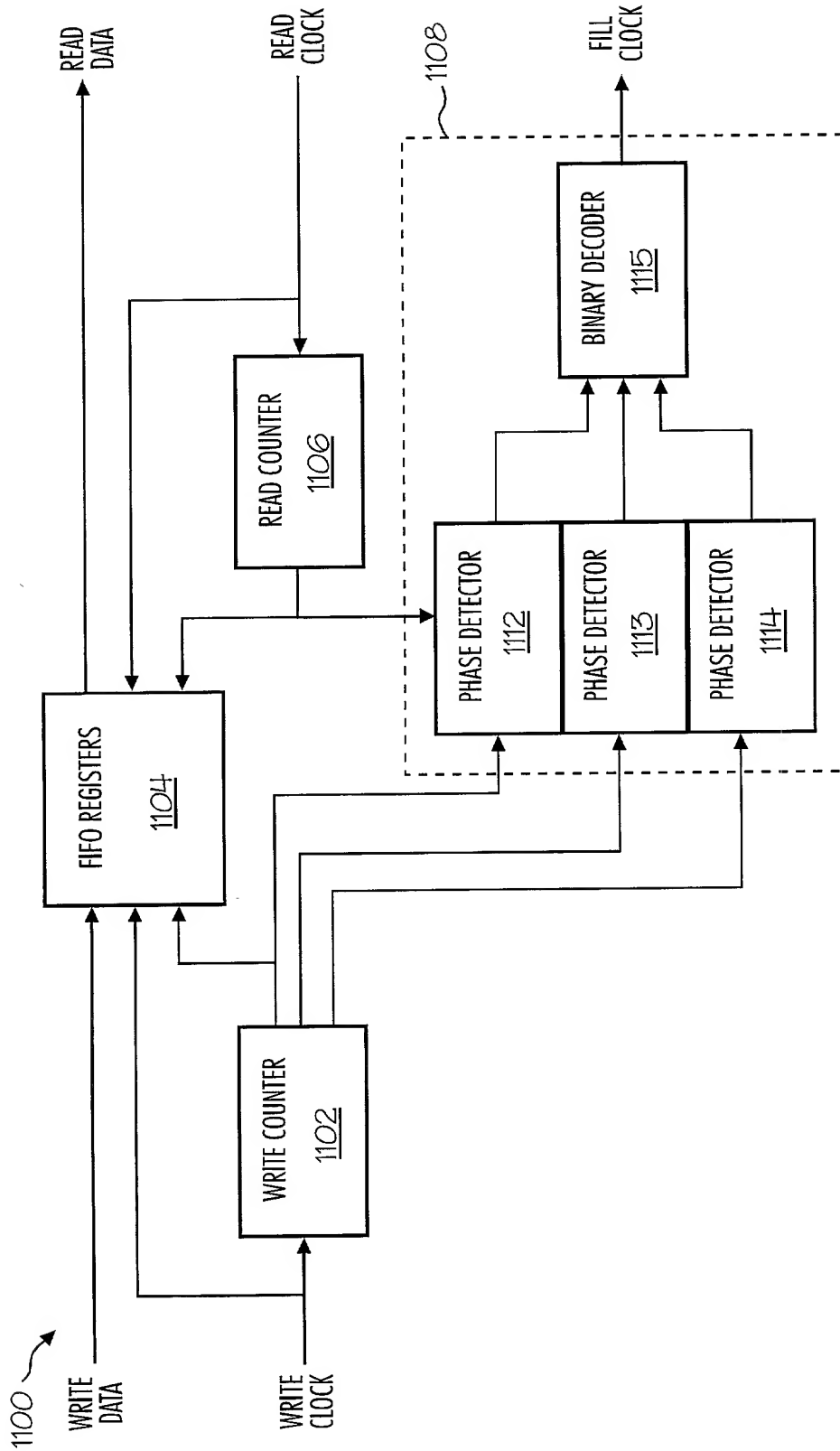
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LOGIC LEVEL IMPLEMENTATION OF SYSTEM 900

Fig. 10

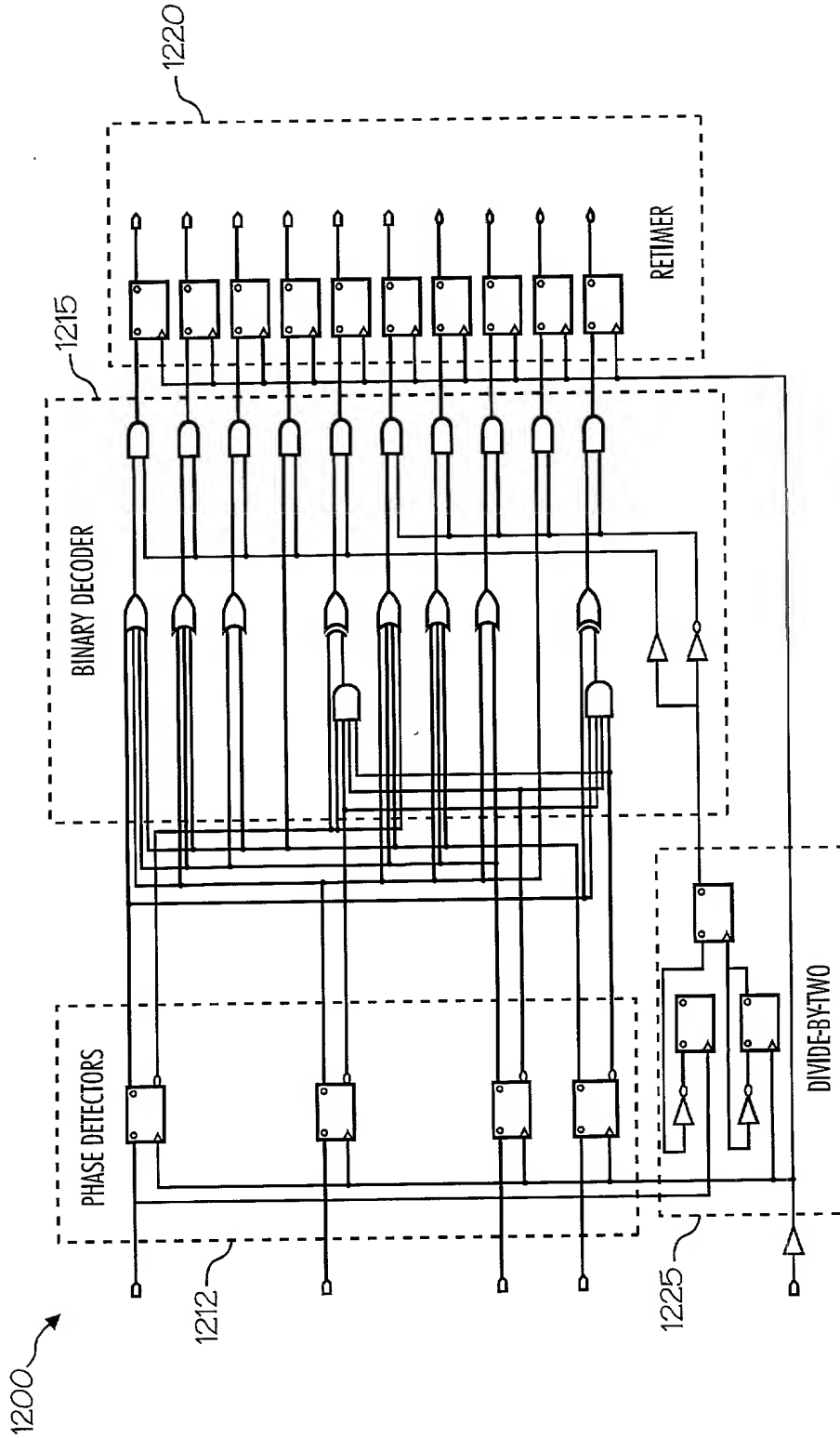
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MULTI-PHASE DETECTOR BASED FIFO FILL LEVEL INDICATOR

Fig. 11

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LOGIC LEVEL IMPLEMENTATION OF SYSTEM 1100

Fig. 12